CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2015 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/CR/CSR-286b/CEMENT/2020-21 Date: 09.12.2020

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** T Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. C. Rajanna,** No.36, Kanasavadi Village and Post, Doddaballapura (T), Bangalore-561203.
* Name of Work	:	Construction of Platform of Dasarahalli Dandinamaramma Temple in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/126/2020-21 Dated:05.11.2020
* Sample ID	:	Cement
Sample Received on	:	08.12.2020
Period of Testing	:	08.12.2020 to 09.12.2020
Report Issue Date	:	09.12.2020

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	395 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Note:

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ಬಾಗಲಗುಂಟೆ.
ಬೆಂಗಳೂರು-56

M/s. Civil-Tech Consultants & Engineers

Pooja K. L.
Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/CR/CSR-286b/SAND-Gradation/2020-21 09.12.2020

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	Asst. Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	Sri. C. Rajanna, No.36, Kanasavadi Village and Post, Doddaballapura (T), Bangalore-561203.
* Name of Work	:	Construction of Platform of Dasarahalli Dandinamaramma Temple in Dasarahalli in Ward No.15, BBMP, Bangalore.
*Reference	:	EE/DD/W.O/126/2020-21 Dated:05.11.2020
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	:	08.12.2020
Date of Testing	:	09.12.2020
Report Issue Date	:	09.12.2020

Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.70	90-100	90-100	90-100	95-100
2.36	82.50	60-95	75-100	85-100	95-100
1.18	70.30	30-70	55-90	75-100	90-100
600 Micron	49.70	15-34	35-59	60-79	80-100
300 Micron	22.90	5-20	8-30	12-40	15-50
150 Micron	4.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2:

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Job No.: CTCE/BBMP/CR/CSR-286b/AGG/GR/2020-21

09.12.2020

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. C. Rajanna,** No.36, Kanasavadi Village and Post, Doddaballapura (T), Bangalore-561203.
* Name of Work	:	Construction of Platform of Dasarahalli Dandinamaramma Temple in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/126/2020-21 Dated:05.11.2020
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received on	:	08.12.2020
Date of Testing	:	09.12.2020
Report Issue Date	:	09.12.2020

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Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.12	95-100	85-100
20	40.32	30-70	0-20
10	15.94	10-35	0-5
4.75	3.46	0-5	-

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* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/CR/CSR-286b/AGG/GR/2020-21

09.12.2020

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	Asst. Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	Sri. C. Rajanna, No.36, Kanasavadi Village and Post, Doddaballapura (T), Bangalore-561203.
* Name of Work	:	Construction of Platform of Dasarahalli Dandinamaramma Temple in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/126/2020-21 Dated:05.11.2020
* Sample ID	:	Coarse Aggregates (20mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963(RA-2016)
Sample Received on	:	08.12.2020
Date of Testing	:	09.12.2020
Report Issue Date	:	09.12.2020

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	97.24	90-100	85-100
10	31.14	25-55	0-20
4.75	5.56	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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11.12.2020

Job No.: CTCE/BBMP/CR/CSR-286b/CC Solid Block/2020-21

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** T Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. C. Rajanna,** No.36, Kanasavadi Village and Post, Doddaballapura (T), Bangalore-561203.
* Name of Work	:	Construction of Platform of Dasarahalli Dandinamaramma Temple in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/126/2020-21 Dated:05.11.2020
Test Method As Per	:	IS: 2185 (Part-1) : 2005 (RA-2015)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	09.12.2020
Date of Testing	:	11.12.2020
Report Issue Date	:	11.12.2020

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Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (Kg/cm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2015)
1	Block 1	36.25	275.6	35.18	Minimum required Compressive Strength of Individual Units 35 Kg/cm^2
2	Block 2	34.15	284.1	36.25	
3	Block 3	35.29	295.6	37.73	
4	Block 4	36.88	279.3	35.65	
5	Block 5	35.47	293.1	37.41	
6	Block 6	34.02	286.4	36.55	
7	Block 7	36.90	301.3	38.46	
8	Block 8	35.18	309.0	39.43	

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/CR/CSR-286b/Cube/2020-21

19.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,**T Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. C. Rajanna,** No.36, Kanasavadi Village and Post, Doddaballapura (T), Bangalore-561203.
* Name of the work	:	Construction of Platform of Dasarahalli Dandinamaramma Temple in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/126/2020-21 Dated:05.11.2020
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.02.2021
Report Issue Date	:	19.02.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.01.2021	19.02.2021	8.147	379.6	16.87
2	22.01.2021	19.02.2021	8.306	382.1	16.98
3	22.01.2021	19.02.2021	8.500	399.9	17.77

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/CR/CSR-286b/Cube/2020-21 19.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. C. Rajanna,** No.36, Kanasavadi Village and Post, Doddaballapura (T), Bangalore-561203.
* Name of the work	:	Construction of Platform of Dasarahalli Dandinamaramma Temple in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/126/2020-21 Dated:05.11.2020
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.02.2021
Report Issue Date	:	19.02.2021

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.01.2021	19.02.2021	8.195	389.6	17.32
2	22.01.2021	19.02.2021	8.371	370.5	16.47
3	22.01.2021	19.02.2021	8.426	402.6	17.89

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/CR/CSR-286b/Cube/2020-21 19.02.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. C. Rajanna,** No.36, Kanasavadi Village and Post, Doddaballapura (T), Bangalore-561203.
* Name of the work	:	Construction of Platform of Dasarahalli Dandinamaramma Temple in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/126/2020-21 Dated:05.11.2020
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.02.2021
Report Issue Date	:	19.02.2021

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.01.2021	19.02.2021	8.411	373.6	16.61
2	22.01.2021	19.02.2021	8.302	387.9	17.24
3	22.01.2021	19.02.2021	8.123	395.0	17.56

*Information is furnished by the Customer/Representative.

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Pooja K.L.

Authorised Signatory

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Job No: CTCR/BBMP/CR/CSR-286b/Kerb Stone/2020-21

06.01.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** T Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. C. Rajanna,** No.36, Kanasavadi Village and Post, Doddaballapura (T), Bangalore-561203.
* Name of work	:	Construction of Platform of Dasarahalli Dandinamaramma Temple in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/126/2020-21 Dated:05.11.2020
* Sample ID	:	Kerb Stone
* Grade of Concrete	:	M_{15}
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample Received on	:	04.01.2021
Date of Testing	:	06.01.2021
Report Issue Date	:	06.01.2021

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.498	3131.23	1.62	0.959	23.89	12.17	13.14	13.70	17.13
2	50.00	80.00	0.426	2712.00	1.60	0.957	22.96	11.69	12.63	13.20	16.50
3	50.00	79.00	0.395	2546.48	1.58	0.955	23.47	11.95	12.91	13.52	16.90

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No.: CTCE/BBMP/CR/SS Pipe/2020-21

06.01.2021

TEST REPORT ON SS RAILING PIPE

* Customer	:	**Asst. Executive Engineer,** T Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. C. Rajanna,** No.36, Kanasavadi Village and Post, Doddaballapura (T), Bangalore-561203.
* Name of work	:	Construction of Platform of Dasarahalli Dandinamaramma Temple in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/126/2020-21 Dated:05.11.2020
* Sample ID	:	Stainless Steel Pipe 50mm dia
Date of Sample	:	06.01.2021
Report Issue Date	:	06.01.2021

PHYSICAL TEST

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Sl.No	Description	Result
1	Thickness	2.90 mm
2	Inner Diameter	50 mm
3	Outer Diameter	60.4 mm
4	Weight / Meter	4.09 kg

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/CR/SS Pipe/2020-21 06.01.2021

TEST REPORT ON SS RAILING PIPE

* Customer	:	**Asst. Executive Engineer,** T Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. C. Rajanna,** No.36, Kanasavadi Village and Post, Doddaballapura (T), Bangalore-561203.
* Name of work	:	Construction of Platform of Dasarahalli Dandinamaramma Temple in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/126/2020-21 Dated:05.11.2020
* Sample ID	:	Stainless Steel Pipe 25mm dia
Date of Sample	:	06.01.2021
Report Issue Date	:	06.01.2021

PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	2.70 mm
2	Inner Diameter	25.00 mm
3	Outer Diameter	33.90 mm
4	Weight / Meter	1.99 kg

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⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2015 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

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BSCIC
ISO 9001 REGISTERED

Job No.: CTCE/BBMP/CR/MS Hollow pipe/2020-21

07.01.2021

TEST REPORT ON M.S HOLLOW PIPE

* Customer	:	**Asst. Executive Engineer,** T Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. C. Rajanna,** No.36, Kanasavadi Village and Post, Doddaballapura (T), Bangalore-561203.
* Name of work	:	Construction of Platform of Dasarahalli Dandinamaramma Temple in Dasarahalli in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/W.O/126/2020-21 Dated:05.11.2020
* Samples ID	:	MS Hollow Pipe 50 mm Dia
Date of Testing	:	07.01.2021
Report Issue Date	:	07.01.2021

Sl.No	Description	Result
1	Thickness	2.07 mm
2	Inner Diameter	50 mm
3	Outer Diameter	54.09 mm
4	Weight / Meter	2.52 kg

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*Information is furnished by the Customer/Representative.

Note:

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Pooja K.L.

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#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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